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GREGORY CASEY

Current Positions:

Assistant Professor, Department of Economics, Williams College, 2018 – Present
CESifo Research Affiliate (Energy and Climate Economics), 2019 – Present

Previous Positions:

Visiting Scholar, Population Training and Studies Center, Brown University, Fall 2023
Visiting Scholar, Federal Reserve Bank of San Francisco, October 2022, May 2023
Visiting Scholar, Department of Economics, UC Santa Barbara, 2022 – 2023
Short-term Consultant, World Bank, Spring 2022, Summer 2023
Visiting Research Scholar, Institute for Social and Economic Research, Osaka U., June 2019
Contractor, Carnegie Institution for Science (Caldeira Lab), Winter 2016
Analyst, Cornerstone Research, 2010 – 2012

Doctoral Studies:

Brown University, Ph.D. in Economics, 2012 – 2018
Dissertation: “Essays in Economic Growth”

Pre-Doctoral Studies:

M.S., Economic Development Policy, Sir Arthur Lewis Institute for Social and Economic Studies (SALISES), University of the West Indies (UWI), Mona, Jamaica, 2010
B.A., Economics and Mathematics, Hamilton College, Clinton, NY, 2009

Fields: Environmental Macroeconomics, Economic Growth

Teaching Experience:

Primary Instructor

2022– Present	Macroeconomics, Williams College
2018 – Present	Sustainable Economic Growth, Williams College
2018 – Present	Topics in Macroeconomics, Williams College
2019 – 2021	Principles of Macroeconomics, Williams College
2014 – 2016	Intermediate Macroeconomics, Brown University

Supervisor

Yang Gao (UCSB Ph.D. Dissertation, committee member, Fall 2023 – Present), Dalton Yu (Williams thesis, Spring 2022); Ashwin Dasgupta (Williams independent study, Spring 2020)

Other Activities

2015 – 2016	Teaching Consultant, Sheridan Center for Teaching and Learning, Brown University
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2014 – 2015 Participant, Reflective Teaching Certificate Program, Sheridan Center for Teaching and Learning, Brown University

Seminars, Panels, and Discussions:

- 2024 AERE@ASSA (discussant), European Commission, Federal Reserve Bank of Dallas. Scheduled: AERE summer conference, AERE@MEA, ETH Zurich, Federal Reserve Bank of Kansas City, Federal Reserve Bank of San Francisco
- 2023 AEA (Panelist for “Climate Change, Economic Inequality, and Economic Growth in the US”), Brown University (x3), Colby College, Federal Reserve Bank of San Francisco, Institute for International Economic Studies, UCSB Bren (x2), UCSB Econ, Virtual Seminar in Climate Economics, Yale University
- 2022 IMF Conference on Transformational Crises, Federal Reserve Board of Governors, Occasional Environmental Economics Workshop (UCSB), Society for Economic Dynamics, UCSB Econ, University of Arizona, Washington Center for Equitable Growth, Williams College
- 2021 AEA (AERE Sessions), STEG-CEPR Annual Conference, Society for Economic Dynamics, Western Economic Association, World Congress of the International Economic Association
- 2020 Liberal Arts Macro, Sustainable Resource Use and Economic Dynamics
- 2019 CESifo (Energy and Climate Economics), Midwest Macroeconomics Spring Meeting, North American Winter Meeting of the Econometric Society, Society for Economic Dynamics, Workshop on Economic Dynamics (Wellesley College), Kobe University, Lehigh University, Osaka University, Williams College
- 2018 Society for Economic Dynamics, Sustainable Resource Use and Economic Dynamics, North American Summer Meeting of the Econometric Society, Liberal Arts Macro Workshop (presenter and discussant), Amherst College, Brown University Growth Breakfast, Darden Business School, Hamilton College, Institute for International Economic Studies, SUNY Albany, University of Copenhagen, University of Warwick, Williams College
- 2017 Summer Meeting of the Association of Environmental and Resource Economists (AERE), Annual Meeting of the Agricultural and Applied Economics Association (AAEA), Annual Meeting of the Northeast Agricultural and Resource Economics Association (NAREA), Southern Economic Association (SEA), Brown University Macroeconomics Seminar, Brown University Macro Lunch (x2), Brown University Growth Breakfast
- 2016 & Earlier NEUDC (presenter and discussant), Zeuthen Conference (University of Copenhagen), Hamilton College, Brown University Macro Lunch

Professional Activities and Service:

Editorial Positions	Associate Editor, Journal of Economic Growth, 2023 – Present
Journal Referee	American Economic Review, B.E. Journal of Macroeconomics, Canadian Journal of Economics, Contemporary Economic Policy, Econometrica, Economic Inquiry, Economic Modelling, Energy Economics, Environmental Research Letters, Environmental and Resource Economics, European Economic Review, German Economic Review, Human Ecology, International Economic Review, International Journal of Biometeorology, Journal of the Association of Environmental and Resource Economists, Journal of Economic Behavior and Organization, Journal of Economic Growth, Journal of Environmental Economics and Management, Journal of Population Economics, Journal of Public Economics, Language and Communication, Letters in Spatial and Resource Sciences, Macroeconomic Dynamics, Marine Resource Economics, Mathematical Social Sciences, Nature Climate Change, PLOS One, Political Research Quarterly, Population and Environment, Regional Science and Urban Economics, Resource and Energy Economics, Review of Economic Dynamics, Review of Economic Studies, Review of World Economics, Scandinavian Journal of Economics, Scottish Journal of Political Economy, Sustainability
Other Referee	Washington Center for Equitable Growth, Osaka University (Moriguchi Prize)
Williams College	Macroeconomics Placement Coordinator, Economics Department, 2020–2022 Unofficial ‘Happiness Czar’, Economics Department, Williams College, Spring 2020 College and Community Advisory Committee, 2019–2020 Economics Department Recruiting, 2018-present Graduate School Advisor, Economics Department, 2018–2019
Brown University	University President’s Task Force on Climate Change and Business and Investment Practices, Brown University, 2017-2018 Brown University Macro Lunch, organizer, 2014

Honors, Fellowships, and Grants:

2023	National Science Foundation (NSF) Research Grant (\$41,140)
2023	Innovative Research in the Economics of Climate Change Award, IZA
2021	STEG-CEPR Small Research Grant (£11,529, with Stephie Fried and Matthew Gibson)

- 2021 Washington Center for Equitable Growth Research Grant (\$32,065, with
Stephie Fried and Matthew Gibson)
- 2018 George Borts' Prize for best economics dissertation, Brown U.
- 2017–18 Interdisciplinary Opportunity Fellowship, Watson Institute for International and
Public Affairs, Brown U.
- 2015–18 Student Affiliate, Institute at Brown for Environment and Society, Brown U.
- 2014–18 Student Fellow, Spatial Studies in the Social Sciences, Brown U.
- Spring 2016 Graduate Student Teaching Award, Brown U.
- Fall 2015 Graduate Student Teaching Fellowship, Brown U.
- Spring 2015 Freiburg Fellowship in International Economics and Finance, Brown U.
- Spring 2015 Graduate Student Teaching Award, Brown U.
- Spring 2015 Third Year Paper passed with Distinction, Brown U.
- Fall 2014 Graduate Student Teaching Fellowship, Brown U.
- Spring 2014 Field Exams passed with Distinction, Brown U.
- Fall 2010 Most Outstanding Overall M.S. Student, SALISES, UWI
- Fall 2010 Most Outstanding M.S. Thesis, SALISES, UWI
- Fall 2010 Most Outstanding M.S. Student in Economic Development Policy, SALISES,
UWI
- 2009 – 2010 Fulbright Scholarship to Jamaica, USA State Department

Peer-Reviewed Publications:

“Energy Efficiency and Directed Technical Change: Implications for Climate Change Mitigation,”
Review of Economic Studies (2024) 91: 192-228.

“A Generalized Uzawa Growth Theorem and Capital-Augmenting Technical Change” (with Ryo
Horii), forthcoming at *JPE Macro*

“A Note on Teaching Automation in Undergraduate Macroeconomics Courses,” forthcoming at
the *Journal of Economics Teaching*.

“Projecting the impacts of temperature change: The role of macroeconomic dynamics” *IMF
Economic Review* (2023) 71: 688–718 (with Stephie Fried and Ethan Goode)

“Historical Instruments and Contemporary Endogenous Regressors,” *Journal of Development
Economics* (2021): 102586. (with Marc Klemp)

“The Impact of Climate Change on Fertility,” *Environmental Research Letters* (2019) 14: 054007.
(designated lead author, with Soheil Shayegh, Juan Moreno-Cruz, Martin Bunzl, Oded Galor, and
Ken Caldeira)

“Is faster economic growth compatible with reductions in carbon emissions? The role of
diminished population growth,” *Environmental Research Letters* (2017) 12: 014003. (with Oded
Galor)

“Inequality and Fractionalization," *World Development* (2014) 56: 32-50. (with Ann Owen)

“Good News, Bad News and Consumer Confidence," *Social Science Quarterly* (2013) 94: 292-315. (with Ann Owen)

Other Publications:

“How Long Do Rising Temperatures Affect Economic Growth?" *FRBSF Economic Letter* 2023-15 (with Stephanie Fried and Ethan Goode)

“Assessing the economic damages of climate change: the role of investment versus consumption” *LSE Business Review*, September 2022 (with Stephanie Fried and Matthew Gibson)

“Population and Energy Consumption/Carbon Emissions: What We Know, What We Should Focus on Next,” in *International Handbook on Population and Environment*, Springer Nature (2022). (with Brant Liddle)

“Economic Growth and Reductions in Carbon Emissions” *VoxEU*, March 2017 (with Oded Galor)

“Avoiding Trade-Offs: Can population policies promote environmental protection and alleviate poverty?” *MAHB*, January 2017 (with Oded Galor)

“Benefits and Costs of the Population and Demography Targets for the Post-2015 Development Agenda” (2014) Perspective paper prepared for the Post-2015 Consensus Project of the Copenhagen Consensus Center (with Oded Galor)

Working Papers:

“Unemployment and the Direction of Technical Change,” revise and resubmit at the *European Economic Review*

“Understanding Climate Damages: Consumption versus Investment” (with Stephanie Fried and Matthew Gibson), revise and resubmit at the *European Economic Review*

“The Macroeconomics of Clean Energy Subsidies” (with Woongchan Jeon and Christian Traeger), submitted

“Endogenous Capital-Augmenting Technical Change” (with Ryo Horii)

Work in Progress:

“Energy Efficiency Dynamics and Climate Policy” (with Yang Gao)

“Macroeconomic Evidence on Substitution between Clean and Dirty Energy” (with Yang Gao)